

Title (en)
AC-TO-DC CONVERTER SYSTEM

Title (de)
WECHSELSTROM-GLEICHSTROM-WANDLERSYSTEM

Title (fr)
SYSTÈME CONVERTISSEUR ALTERNATIF-CONTINU

Publication
EP 3453106 A1 20190313 (EN)

Application
EP 17721153 A 20170504

Priority
• EP 16168376 A 20160504
• EP 2017060628 W 20170504

Abstract (en)
[origin: EP3242382A1] A converter system (10) for converting a three-phase or a single-phase AC voltage into a DC voltage, wherein the converter system (10) comprises three converter branches (12), each converter branch (12) comprising a first input (16a) and a second input (16b) to be supplied with a single-phase AC voltage and a first output (18a) and a second output (18b) providing a DC voltage; wherein each converter branch (12) comprises an AC-to-DC stage (22) and a DC-to-DC stage (24), which are connected between the first and second input (16a, 16b) and the first and second output (18a, 18b); wherein the converter system (10) is configured for interconnecting the first input (16a) of each converter branch (12) with a phase of a three-phase grid (38a) and for interconnecting the first inputs (16a) of the converter branches (12) with a phase of a single-phase grid (38b); and wherein the converter system (10) is configured for interconnecting the second inputs (18b), which are interconnected with each other, of the converter branches (12) with a neutral point (N) of the three-phase grid (38a) or the single-phase grid (38b).

IPC 8 full level
H02J 7/02 (2016.01); **H02M 1/10** (2006.01); **H02M 1/42** (2007.01); **H02M 7/23** (2006.01)

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Citation (search report)
See references of WO 2017191245A1

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EP 3242382 A1 20171108; CN 109463029 A 20190312; CN 109463029 B 20220503; EP 3453106 A1 20190313; EP 3453106 B1 20220706; US 11050352 B2 20210629; US 2019074775 A1 20190307; WO 2017191245 A1 20171109

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